WHAT IS CLAIMED IS:

1.   A computer system, comprising:

            a first OS;

            a service application operating on the first OS to conduct ordinary business processing;

            a second OS differing from the first OS; and

            an analysis and prediction application operating on the second OS,

            wherein the first OS holds state information and operation recording information of the first OS itself, and

            wherein the analysis and prediction application analyzes contents of information held by the first OS and detects a sign of a failure.

2.   The computer system according to claim 1, wherein the first OS comprises an auxiliary program to assist the analysis and prediction application,

            wherein the analysis and prediction application holds a list of a memory location where information to be analyzed is stored, an analysis method, and processing to be conducted against a failure, and

            the auxiliary program conducts processing against a failure of the first OS by referring to contents of the processing list on the basis of a failure sign.

3.   The computer system according to claim 1,

wherein the analysis and prediction application notifies an external terminal of contents of an analyzed failure sign.

4. A computer system, comprising:

a first computer; and

a second computer;

the first computer comprising:

a first OS;

a service application operating on the first OS to conduct ordinary business processing;

a second OS differing from the first OS; and

an analysis and prediction application operating on the second OS,

wherein the first OS holds state information and operation recording information of the first OS itself, and

wherein the analysis and prediction application analyzes contents of information held by the first OS, and if the analysis and prediction application has detected a sign of a failure that cannot be subject to self-restoration, the analysis and prediction application notifies the second computer of analyzed contents of the failure and makes the second computer take over processing.

5. A computer system, comprising:

a plurality of first OS's;

a plurality of service applications respectively operating on the first OS's to conduct

ordinary business processing;

a second OS differing from the first OS's; and

an analysis and prediction application operating on the second OS,

wherein each of the first OS's holds state information and operation recording information of the first OS itself, and

wherein the analysis and prediction application analyzes contents of information held by each of the first OS's and detects a sign of a failure.

6. A computer system, comprising a plurality of virtual multi-OS sets, each of the virtual multi-OS sets comprising:

a first OS;

a service application operating on the first OS to conduct ordinary business processing;

a second OS differing from the first OS; and

an analysis and prediction application operating on the second OS,

wherein the first OS holds state information and operation recording information of the first OS itself,

wherein the analysis and prediction application analyzes contents of information held by the first OS and detects a sign of a failure, and

wherein the first OS and the second OS in each of the virtual multi-OS sets are switched

alternately to execute operation, and the analysis and prediction application in each of the virtual multi-OS sets analyzes contents of information held by the first OS in the own set and detects a sign of a failure.

7.   The computer system according to claim 6, wherein if an analysis and prediction application in one of the virtual multi-OS sets has detected a sign of a failure in the first OS in the own set, the analysis and prediction application notifies other virtual multi-OS sets of analyzed contents of the failure and makes another virtual multi-OS set take over processing.

8.   A failure sign detecting method in a computer system executing a plurality of OS's, comprising the steps of:

executing a first OS and a second OS in parallel;

analyzing contents of state information and operation recording information held by the first OS and detecting a sign of a failure, by using an analysis and prediction application operating on the second OS; and

notifying another computer system of the detected sign of the failure.

9.   The failure sign detecting method according to claim 8, wherein the analysis and prediction application holds a list of a memory location to be analyzed, an analysis method, and processing to be

conducted against a failure, and conducts processing
against a failure of the first OS by using an auxiliary
program included in the first OS to assist the analysis
and prediction application, referring to contents of
the processing list, on the basis of a failure sign.